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DELTA

# PHILIP MORRIS

U.S.A.

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13 March 1981

Theresa M. Gillis, Esq.  
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**CONFIDENTIAL**

RE: ANALYTICAL DATA IN SUPPORT OF  
PROJECT DELTA PATENT APPLICATIONS

Dear Terri:

Pursuant to our telephone conversation this morning, I am forwarding a compendium of data on the above subject and correspondence pertinent to the collection of that data.

Included are copies of reports on smoke analysis and several Project Delta monthly reports. As we discussed, the monthly reports are included to reflect our reasoning behind the collection of the various types of data and our interpretation of the results.

It is likely that not all of the information provided herein is appropriate for disclosure in a CIP. Our objective is to provide you with as broad a background in the data as is possible in the limited time available.

The enclosed information reflects the following chronological sequence of events pertinent to our disclosures.

May 13, 1980: Permission was given to involve R&D personnel outside of Project Delta in the acquisition of information to characterize the smoke of our smoking articles. Characterization of the smoke was intended to provide information to support patent claims and to clear the articles for human smoking.

May 28, 1980: A seminar was held at R&D to present the Delta smoking article concept to individuals whose help would be sought in the characterization of smoke.

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August 1980: First samples delivered to Analytical Research Division for analysis. Investigations of alternate means of article production pursued.

September 1980: Samples delivered to Biochemical Research Division.

November 5, 1980: Meeting held to discuss preliminary results of analysis. Additional analysis suggested by Jim Charles.

November 11, 1980: Presentation of preliminary analytical results made at Richmond Meeting. Plans for an investigation of other means of article production, including injection molding, were outlined.

December 5, 1980: Results of replicate biological activity testing received. Results show a difference in activity between plugged and unplugged tubes. Additional biological testing of acid, basic and neutral fractions of whole smoke condensate requested by Jim Charles.

December 16, 1980: Meeting with H. Kothe, T. Gillis, W. Claflin, and C. Lilly to discuss non-tobacco patents.

January 14, 1981: Analysis of condensate fractions received. Analysis shows condensate to have a specific activity equivalent to that of Burley tobacco. Additional chemical and biological analysis requested by Jim Charles.

January 19, 1981: Experiments using food processor for the production of smoking articles conducted at Wenger Manufacturing Company, Sabetha, Kansas.

January 30, 1981: Extrusion of low cross section, high density tobacco filler reported. Method to produce preformed carbonized smoking article reported.

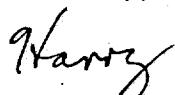
March 6, 1981: Results of remainder of analytical results requested by Jim Charles reported.

March 12, 1981: Decision to proceed with human smoking made at R&D meeting.

The information regarding experiments in new processing techniques is included to bring John Torrente up to date on our efforts in this area. I am sure you will want to convey this information to him.

If you have any questions regarding this data or would be interested in any additional data, please feel free to give me a call.

Sincerely,



Harry V. Lanzillotti

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Enclosures (listed)  
cc: R. Seligman  
W. Gannon  
S. Hutcheson

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ENCLOSURES

1. Project Delta Monthly Report May 1980
2. Project Delta Monthly Report August 1980
3. Project Delta Monthly Report September 1980
4. Project Delta Monthly Report October 1980
5. Project Delta Monthly Report November 1980
6. Project Delta Monthly Report December 1980
7. Project Delta Monthly Report January 1981
8. Project Delta Monthly Report February 1981
9. Memo dated November 13, 1980 on November 5, 1980 meeting to discuss analytical results
10. Memo dated November 6, 1980 on Organic Gas Phase Chemometric Analysis
11. Memo dated November 6, 1980 on Infrared Analysis of Gas Phase Smoke
12. Memo dated November 7, 1980 on GC Profiling of Silylated TPM
13. Memo dated November 10, 1980 on Headspace Analysis of TPM
14. Memo dated November 12, 1980 on Comparative PAH Fractions
15. Memo dated October 27, 1980 on Salmonella/Microsome Assay of WSC
16. Memo dated December 5, 1980 on Salmonella/Microsome Assay of WSC
17. Memo dated 14 January 1981 on Salmonella/Microsome Assay of WSC Fractions
18. Memo dated 2 March 1981 on Chemical Analysis of Smoking Article Smoke
19. Memo dated March 5, 1981 on Yeast Mitotic Gene Conversion Assay of WSC

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